

Receiving Report

Date: 13-10-11

Batch No: 127148

Supplier: ThyssenKrupp

Dart P/O: 21461

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☒ N/A ☐
 Waybill Attached: Yes ☐ No ☒ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection ☒ N/A ☐
 Work Order 106719 ☒ N/A ☐
106711

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 SP

Production/Admin: 13-10-11
 Date
 Received/Costing SP
 Initial

Location _____

Page 1 of 1

All amounts are calculated in domestic currency.

es from 10/11/2013 to 10/11/2013

All Rec. Employees

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO21461	1		M7075T6B3.500X02. f 000		9/30/2013	10/11/2013	11.1600	\$39.79	0.0000	0	\$444.11
CAD	No		7075-T6 BAR 3.500" f X 2.000"		12.7500	DESJ02		\$444.11	0.0000	0	
			m127148/106719/711								
	2		D6103-003P	Each	9/30/2013	10/11/2013	20.0000	\$55.57	0.0000	0	\$1,111.34
	No		Round Alum Billet	Each	20.0000	DESJ02		\$1,111.34	0.0000	0	
			m127148/106719/711								
	3		D6104-011P	Each	9/30/2013	10/11/2013	10.0000	\$132.00	0.0000	0	\$1,320.02
	No		17-4 SS Roundbar 6.50"Od	Each	10.0000	DESJ02		\$1,320.02	0.0000	0	
			m127148/106719/711								
Total Received Quantity:											41.1600
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$2,875.46
Total Balance Due Quantity:											0.0000

45

B I L L O F L A D I N G

No: PEC 844749

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 09Oct13 at 14:11 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-608727- 1 Your PO # 21461
Part # D6103-003
ALUMINUM ROUND BAR 7075T7351
3.50" DIA X 12.5000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
MA013004215	224665	20 '10.0000 "	20	244

2) Our Order PEC-608727- 2 Your PO # 21461
ALUMINUM PLATE 7075-T651
2.00" THICK X 3.5000" X 51.0000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
437541	224667	3.72 SFT	3	115

3) Our Order PEC-608727- 3 Your PO # 21461
Part # D6104-011
STAINLESS STEEL ROUND BAR 17-4 STAINLESS
6.50" DIA X 4.1000"

Heat Number	Tag No	Quantity	PCS	Wt LBS
425963	224668	3 ' 5.0000 "	10	410

TOTAL:	Tags	PCS	LBS
	3	33	769

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

Page: 1Continued

SP13-10-11

BK. REFL

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

SHIP FROM:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

NO: PEC 844749
SHIP DATE 09Oct13 at 14:11 From PFW
PROBILL
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

SHIP TO: (1)
DART AEROSPACE

B I L L O F L A D I N G

** REFERENCED ON IT **

TOTAL OF 3 SKIDS GR.W. 844 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***
**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 2 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

Certified Inspection Report

Alcoa Inc.
Massena Operations
Park Avenue East, Massena, NY 13662



ALCOA

08/17/13
00:25:11

Customer Copper Brass Sales	Customer P.O. No. 5400189486	Customer Part No. (ALRD00373)	Alcoa Order No. MMC-A8137- -070	Govt. Contract No.
Ship To Copper Brass Sales 800 Arlington Blvd. Suite Swedesboro, NJ 08085	We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/TS 16949 registered quality management system Melted and manufactured in the USA.			
Date Shipped 08/16/13	Weight Shipped 1,964 lbs	Product CFRB-CF ROD	Specific Length 12 FT	BOL 000161359
Alloy - Temper 7075-T7351	Size 3.50000 IN	Shape DIA	Config 12 FT	QRR

James E. Samuel II
Quality Assurance Manager

Specifications:

AMS 4124E
ASTM B211-12E1
Material conforms to T73 requirements
Minimum mechanical properties to apply:
68 KSI Tensile Strength
56 KSI Yield Strength
10% Elongation
QA-225/9E (Except Size)
AMS-QQA-225/9 (Except Size)

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9.
Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

TEST REQUIREMENTS		Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong	Cond							
Max:		68.0	67.9	10.0	38.0							
Min:			56.0									

TEST RESULTS		Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong	Cond							
Lot / Work Order												
MA013004215		73.6	63.6	15.5	40.5							
Max:		73.6	63.6	15.5	40.5							
Min:												

TEST ABBREVIATIONS		T.Y.S. Tensile Yield Strength KSI											
		%Elong Elongation % in 2"											
		U.T.S. Ultimate Tensile Strength KSI											
		Cond Conductivity % IACS											
		Aluminum Association Chemical Composition Limits (in Weight %)											

		%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL
		MAX	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15	Rem
7075		MIN	1.2	1.6	0.03	2.1	0.18	5.1	0.02	Each	Total	

Actual Started Chemistry

LOT/WORK ORDER		%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL
		MAX	0.06	1.7	0.03	2.6	0.20	6.0	0.02	LT 0.05	LT 0.15	Rem
MA013004215		MIN	0.05	1.6	0.03	2.5	0.19	5.8	0.02			

From: ThyssenKrupp Materials NA
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402715926
CstAr CstOr 252175
Wgt.: 244.213 LB Date 09/25/2013

John D. Zambelli

Certified Inspection Report

08/17/13
00:25:11

Alcoa Inc.
Massena Operations
Park Avenue East, Massena, NY 13662



ALCOA

Govt. Contract No.

Alcoa Order No.

Customer Part No.

Customer P.O. No.

MMC-A8137- -070

(ALRD00373)

5400189486

Customer
Copper Brass Sales

NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product. This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402715926

CstAr CstOr 252175

Wgt.: 244.213 LB Date 09/25/2013

COPPER AND BRASS SALES**MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION****2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7****"WARNING"**

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

* Aluminum, in solid form and as contained in finished products presents no special health risk.

* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ www.copperandbrass.com.



CERTIFIED TEST REPORT
Constellium Rolled Products Ravenswood, LLC

2

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN
46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI
48086

COPPER&BR T84303 4075 INCLUSION SERIAL#: 20130820T84303 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513235	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999		B/L NUMBER T84300		DATE SHIPPED 08/21/13	
WEIGHT SHIPPED 7,540		NO. OF PIECES 4		GOVT. CONTRACT NO.	

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Rodney J. Felty
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
437541	LT	2	***** T651 80.1	80.8	68.7	69.6	***** 13.0	13.0											
All material contained in lot 437541 was cast and manufactured in the USA.																			

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			

ASTM B209-10,AMS 4045K																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTA MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	

P-860-155D (06/11)

From: ThyssenKrupp Materials NA
Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402716201
CstAr CstOr 252175
Wgt.: 115.000 LB Date 09/25/2013

John L. Zumbatti



CERTIFIED TEST REPORT
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR T84303 4075 INCLUSION SERIAL#: 20130820T84303 PAGE 2 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513235		CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 60.500	LENGTH 144.500	
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL						
CUSTOMER SPECIFICATION AMS-QQ-A-250/12						
PART NUMBER ALFLR00999		B/L NUMBER T84300		DATE SHIPPED 08/21/13		
WEIGHT SHIPPED 7,540		NO. OF PIECES 4		GOVT. CONTRACT NO.		

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS			
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX		
437541	C		ACTUAL CHEMICAL COMPOSITION									
			SI= 0.08	FE= 0.16	CU= 1.42	MN= 0.04	MG= 2.48					
			CR= 0.21	ZN= 5.59	TI= 0.02	ZR= 0.01						
			OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER									
SEE ACTUAL CHEMICAL COMPOSITION												
ALUMINUM REMAINDER												

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402716201

CstAr

CstOr 252175

Wgt.: 115.000 LB

Date 09/25/2013

John R. Zumbatti



CERTIFIED TEST REPORT
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS SALES
P.O. BOX 5116
SOUTHFIELD MI

48086

COPPER&BR T84303 4075 INCLUSION SERIAL#: 20130820T84303 PAGE 3 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400189756				Constellium ORDER NO. 110-513235	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999		B/L NUMBER T84300		DATE SHIPPED 08/21/13	
WEIGHT SHIPPED 7,540		NO. OF PIECES 4		GOVT. CONTRACT NO.	

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC
Rt 2 South, Century Road
P.O. BOX 68
RAVENSWOOD, WV 26164 USA

Rodney J. Felty
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																			
CHEMISTRY BY OES: ARKSPARK																			
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																			
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																			
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																			
Mark Paperwork: ALFLR00999																			
DUNS Number: 090570149; CAGE Code: 1YWL9																			
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																			
"END OF CERTIFICATION"																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402716201

CstAr

CstOr 252175

Wgt.: 115.000 LB

Date 09/25/2013

John L. Zambetti

**VALBRUNA**

SLATER STAINLESS, INC.

2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801**Product Certification Report**Report Number: **4915460**

Certified on Sep 13, 2013 Page 1 of 2

Order I.D. 1302074 002		Order Date 8/29/13		Commodity Code SSRD00137	
Dim 1 6.5000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 425963	Customer I.D. 002558	Customer Purchase Order 5400195734-TX
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 630
Length (Inches) 120.000 Min. 168.000 Max.			Bill of Lading # 420150	Weight	

Ship To**COPPER AND BRASS SALES
12321 Cutten Road
HOUSTON, TX 77041****Sold To****VALBRUNA STAINLESS, INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN 46802****Lifts: 0030 0031**

AISI 630

Condition A

ASTM F899-12b

ASTMA 564-13

ASMESA 564 10 ED 2011a add.

AMS 2303F

AMS 5643S (except finish)

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N	Cb	Ta	Cb+Ta
.035	.70	.028	.022	.45	15.97	4.40	.26	3.32	.03	.26	.000	.259

BRINELL HARDNESS ASTM E10-12

HBW

358

TENSILE PROPERTIES ASTM E8-13a**CAPABILITY**

Cap HB	TS (PSI)	.2%YS (PSI)	%EL(4d)	%RA	AGE(F)
403	194600	171000	18.1	48.5	900

MAGNETIC PARTICLE TEST AMS2303

FREQ SEV

AVG .00 .00

PRODUCTION HEAT TREATMENT

SOL-ANN(F)	SOL-ANN(HR)	QUENCH
1900	10.00	Air

MACRO ASTM E340-00/E381-01

MACRO

OK

OK

OK

PERCENT FERRITE (AMS 2315)

% FERRITE	Etchant	Magnification X
2.0	Marbles	100

AVG

Free of mercury and low melting alloy contamination.

MAXX stainless.

Electric Furnace melted; AOD refined.

Reduction ratio exceeds 5 To 1.

Material is RoHS compliant.

Chemical testing to one or more of the listed ASTM methods:

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett

email: DHackett@valbruna.us

Dennis Hackett

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402716134

CstAr

CstOr 252175

Wgt.: 410.000 LB

Date 09/30/2013

John R. Zambetti

**VALBRUNA****SLATER STAINLESS, INC.**2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801**Product Certification Report****Report Number: 4915460****Certified on Sep 13, 2013 Page 2 of 2**

Order I.D. 1302074 002		Order Date 8/29/13		Commodity Code SSRD00137	
Dim 1 6.5000	Dim 2 .0000	Dim 3 .0000	Heat I.D. 425963	Customer I.D. 002558	Customer Purchase Order 5400195734-TX
Product Shape Rounds			Product Surface HR & Rough Turned		Customer Grade 630
Length (inches) 120.000 Min. 168.000 Max.			Bill of Lading # 420150	Weight	

**Ship
To****COPPER AND BRASS SALES
12321 Cutten Road
HOUSTON, TX 77041****Sold
To****VALBRUNA STAINLESS, INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN 46802**

E415-08, E572-02a, E1019-11, E1085-95, E1086-08.
Location of tensile fracture: inside middle of gage length.
Chemical Analysis performed at Acciaierie Valbruna, Italy.
No mercury or low melting alloy contamination. No weld repair.
Material melted in Italy, manufactured in the United States.
Material conforms to listed specifications and is DFARS compliant.
Quality system is compliant with ISO 9001:2008. Produced in accordance with EN 10204 3.1.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

Dennis Hackett

email: DHackett@valbruna.us

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402716134

CstAr

CstOr 252175

Wgt.: 410.000 LB

Date 09/30/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21461**

Purchase Order Date 9/23/2013

PO Print Date 9/24/2013

Page Number 1 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
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1	M7075T6B3.500X02.000	7075-T6 BAR 3.500' X 2.000"	9/30/2013 Yes 9/30/2013		12.75 11.16	\$41.00	\$522.75
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MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: PLEASE CUT TO SIZE 3 PCS CUT AT 51"

Line Total: \$522.75

2	D6103-003P	Round Alum Billet	9/30/2013 Yes 9/30/2013		20.00 Each	\$57.25	\$1,145.00
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AS PER DWG D6103 REV. B
B106711

Line Total: \$1,145.00

8913-10-11

Note:

9/24/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO21461**

Purchase Order Date 9/23/2013

PO Print Date 9/24/2013

Page Number 2 of 2

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

3	D6104-011P	17-4 SS Roundbar 6.50"Od	9/30/2013 Yes 9/30/2013	10.00 Each	✓	\$136.00	\$1,360.00
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AS PER DWG D6104 REV. B
B106719

8813-10-11

Line Total: \$1,360.00

PO Total: \$3,027.75

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required **YES** NO
PST# 6122-5207

Change Nbr:

2

Change Date: 9/24/2013